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SYNOPTICAL VIEW of the STATE of the WEATHER in  
DUBLIN. By RICHARD KIRWAN, Esq; L. I. D. F. R. S. and  
M. R. I. A.

| 1794.            | BAROMETER. |                   |         |                    |                    | THERMOMETER.        |                  |        | RAIN.                             |                   | Read January 9, 17 |
|------------------|------------|-------------------|---------|--------------------|--------------------|---------------------|------------------|--------|-----------------------------------|-------------------|--------------------|
|                  | Highest.   | Day it hap-pened. | Lowest. | Day it happened.   | Mean of the Month. | Highest of the Day. | Lowest at Night. | Mean.  | Days.                             | Inches.           |                    |
| January - -      | 30,67      | 21st W.           | 29,20   | 25. NW.            | 30,152             | 55,50               | 27,—             | 39,63  | 7. & 3. of Snow                   | —,591145          |                    |
| February - -     | 30,34      | 8. & 26. NW.      | 29,35   | 23. Var. W. to S.  | 29,846             | 58,—                | 35,—             | 47,68  | 20.                               | 2,325174          |                    |
| March - -        | 30,63      | 21. E.            | 29,45   | 18. S. & SW.       | 30,02              | 62,—                | 32,50            | 50,42  | 18.                               | 1,261112          |                    |
| April - -        | 30,54      | 17. W. by S.      | 29,12   | 7. Var. NW. to NE. | 29,932             | 63,—                | 36,50            | 50,74  | 22.                               | 2,522224          |                    |
| May - -          | 30,71      | 16. E.            | 29,43   | 9. SW. & S.        | 30,179             | 69,50               | 38,50            | 52,26  | 18.                               | 1,379340          |                    |
| June - -         | 30,53      | 1. E.             | 29,88   | 20. E.             | 30,219             | 75,—                | 46,—             | 61,13  | 14.                               | —,748774          |                    |
| July - -         | 30,59      | 9. N. & E.        | 29,66   | 23. E.             | 30,171             | 79,50†              | 50,50            | 63,57  | 18.                               | 2,325174          |                    |
| August -         | 30,485     | 13. N.            | 29,71   | 6. NW.             | 30,090             | 75,—                | 46,—             | 60,58  | 19.                               | 2,185545          |                    |
| September -      | 30,52      | 30. W.            | 29,31   | 20. S.             | 30,041             | 65,—                | 37,50            | 55,33  | 16.                               | 1,891,63          |                    |
| October -        | 30,58      | 21. E.            | 29,44   | 5th S.             | 29,96              | 63,—                | 37,—             | 50,12  | 25.                               | 2,377715          |                    |
| November -       | 30,42      | 13. NE.           | 29,14   | 28th W.            | 29,793             | 55,50               | 32,—             | 45,20  | 22.                               | 7,670719          |                    |
| December -       | 30,61      | 16. W. by N.      | 29,48   | Var. 2d SW.        | 30,030             | 55,—                | 32,—             | 41,32  | 19. & 1. of Snow                  | 3,540377          |                    |
| Mean of the Year | 30,552     |                   | 29,437  |                    | 30,036             |                     |                  | 51,915 | 218. & 28,826.958<br>4 light Snow | Total of the Year |                    |

† On the 2d of July Sixe's thermometer rose to 81°,50 at one o'clock, P. M. At two o'clock it was 79°,50.

THE greatest height of the barometer was on the 16th of May, viz. 30,71 inches, and on the 21st of January, viz. 30,67 inches. Its lowest state was on the 7th of April, viz. 29,12 inches, and on the 28th of November, viz. 29,14.

THE hottest day was the 2d of July, the thermometer standing for about an hour at 81°,5. and most of the day at 79°,5. The greatest cold took place in January, the thermometer being several times at 27°.

THE wettest month was November, during which there fell the enormous quantity of 7,676719 inches on a square foot, about twelve gallons. The driest was January, there having fallen no more than 0,59114 inches, not quite a gallon.

NOVEMBER was also the most stormy month.

*View of the Seasons.*

| S P R I N G. |         |         | S U M M E R. |         |         | A U T U M N. |           |         |
|--------------|---------|---------|--------------|---------|---------|--------------|-----------|---------|
|              |         |         | RAIN.        |         |         |              |           |         |
|              | RAIN.   |         | RAIN.        | Inches. | Days.   |              | RAIN.     |         |
|              | Inches. | Days.   | June         | -       | 0,74878 | 14           | September | -       |
| April        | -       | 2,52222 | 22           | July    | -       | 2,32517      | 18        | 1,89116 |
| May          | -       | 1,37934 | 18           | August  | -       | 2,18066      | 19        | 2,37771 |
|              |         | 3,90156 | 40           |         |         | 5,25461      | 51        | 4,26887 |
|              |         |         |              |         |         |              |           | 41      |

HENCE

HENCE we see by the first table of the last volume, page 228, that the *Spring* was *wet*, whether we consider the quantity of rain or the number of wet days.

THE Summer must be denominated *variable, inclining strongly to wet*, whether we consider the quantity or duration of the rain. The Autumn was also *very wet*.

*Comparison of the Seasons with the Rules of Prognostication.*

THE Spring being wet the probability of a wet Summer was the greatest by the third table, being  $\frac{5}{8}$ ; but that of *variable wet* was nearly as great, being  $\frac{4}{5}$  by the sixth table.

THE Spring being *wet* and the Summer *variable wet*, the probability of a dry Autumn stands greatest in my tenth table. If this rule be true, this year is an exception to that rule. The fifth table left it doubtful whether the Autumn would be dry or variable. The fourth table indicated a variable.

*Of the Winter preceding the Spring of 1794.*

|       | Rain.   |       | Mean.      |       | Storms.       |
|-------|---------|-------|------------|-------|---------------|
|       | Inches. | Days. | Barometer. | Heat. |               |
| 1793. | 2,7192  | 17    | 29,90      | 44,35 | 8. SE. SW.    |
|       | 1,8128  | 17    | 29,81      | 43,51 | 2. SW.        |
|       | 4,5320  | 34    | 29,85 Mean | 43,93 |               |
| 1794. | 0,59114 | 10    | 30,15      | 39,63 | O.            |
|       | 2,32517 | 20    | 29,84      | 47,68 | 4. ESE. NE.   |
|       | 1,26111 | 18    | 30,02      | 50,42 | 2. NE. W. SW. |
| Total | 4,17742 | 48    | 30,00 Mean | 45,91 |               |
|       | 8,70942 | 82    | 29,92 Mean | 45,91 |               |

*Synoptical*

*Synoptical View of the State of the Weather in the Year 1795.*

| 1795.            | BAROMETER.                      |  |                          | THERMOMETER.              |                        |                     | RAIN.               |   |                                   | STORMS.                |  |
|------------------|---------------------------------|--|--------------------------|---------------------------|------------------------|---------------------|---------------------|---|-----------------------------------|------------------------|--|
|                  | Highest.<br>Day it<br>happened. | Lowest.<br>Day it<br>happened.         | Mean<br>of the<br>Month. | Highest<br>in the<br>Day. | Lowest<br>at<br>Night. | Mean.               | Days.               | Inches.                                     | No.                               | Winds.                 |  |
| January -        | 30,63<br>10th SE.<br>& S.       | 29,20<br>27th W. &<br>N.               | 30,195                   | 44,—                      | 19,50                  | 32,98               | 4. & 11.<br>of Snow | 2,403994                                    |                                   |                        |  |
| February -       | 30,84<br>16th E.<br>calm        | 28,95<br>10th & 11th<br>var. E. to SW. | 29,762                   | 53,—                      | 23,50                  | 36,53               | 8. & 11.<br>of Snow | 2,285765                                    | 4.                                | E. by S. S. SE. NE.    |  |
| March -          | 30,50<br>20th W. &<br>SW. high  | 29,32<br>10th W.<br>high               | 29,919                   | 55,—                      | 24,50                  | 41,935              | 15. & 2.<br>of Snow | 2,206946                                    | 2.                                | NW. SW.                |  |
| April -          | 30,48<br>5th N. &<br>N. by E.   | 29,33<br>11th W.                       | 29,873                   | 67,—                      | 34,50                  | 47,066              | 16. & 4.<br>of Hail | 2,364585                                    | 4.                                | SW. W. & SE.           |  |
| May -            | 30,73<br>27th E.<br>by N.       | 29,80<br>1st NW.                       | 30,393                   | 75,50                     | 35,—                   | 54,025              | 12.                 | 0,604275                                    |                                   |                        |  |
| June -           | 30,47<br>19th NE.               | 29,57<br>28th N. by<br>W.              | 30,104                   | 73,—                      | 41,50                  | 55,775              | 14.                 | 2,679863                                    |                                   |                        |  |
| July -           | 30,68<br>7th & 8th<br>E.        | 29,83<br>22d NW.<br>high               | 30,304                   | 75,—                      | 46,—                   | 60,525              | 12.                 | 1,090322                                    |                                   |                        |  |
| August -         | 30,45<br>28th &<br>29th SW.     | 29,64<br>2d SW.                        | 30,101                   | 78,—                      | 49,50                  | 62,69               | 14.                 | 0,630556                                    |                                   |                        |  |
| September -      | 30,64<br>14th SW.               | 29,57<br>1st E.                        | 30,230                   | 72,—                      | 45,—                   | 59,68               | 11.                 | 0,354687                                    |                                   |                        |  |
| October -        | 30,27<br>11th NE.<br>calm       | 28,94<br>10th S.                       | 29,644                   | 63,—                      | 41,—                   | 52,872              | 24.                 | 6,6228                                      | 2.                                | S. by E. NW.           |  |
| November -       | 30,88<br>18th W. by<br>N.       | 28,98<br>30,025                        | 55,550                   | 28,50                     | 41,416                 | 16. & 1.<br>of Snow |                     | 2,850632                                    | 3.                                | W. by N. SW. & S.      |  |
| December -       | 30,60<br>9th E.                 | 29,08<br>13th SE.                      | 30,013                   | 57,—                      | 32,50                  | 44,75               | 21.                 | 2,390845                                    | 9                                 | SW. W. NW.             |  |
| Mean of the Year | 30,597                          | 29,35                                  | 30,047                   |                           |                        |                     | 49,191              | 196 on 25<br>of which<br>there fell<br>Snow | 26,483270<br>Total of the<br>Year | 24. Total in the Year. |  |

THIS

THIS year was remarkably colder than the last.

THE greatest height of the barometer happened in November, viz. 30,88. The lowest in October, viz. 28,94.

THE hottest days was on the 12th and 20th of August, the thermometer being at 78° on these days.

THE greatest cold happened on the night of the 22d of January, the thermometer being at 19°,5, but in the country it was, as usual, one or two degrees lower.

THE wettest month was October, the fall of rain being 6,6208 cubic inches, and its continuance 24 days. The driest was September, there having fallen only 0,354687 of an inch, and only during eleven days.

*View of the Seasons.*

| S P R I N G. |                |           | S U M M E R. |                |           | A U T U M N. |                |           |
|--------------|----------------|-----------|--------------|----------------|-----------|--------------|----------------|-----------|
|              | R A I N.       |           |              | R A I N.       |           |              | R A I N.       |           |
|              | Inches.        | Days.     | June         | Inches.        | Days.     | September    | Inches.        | Days.     |
| April -      | 2,36458        | 16        | June -       | 2,67986        | 14        | September -  | 0,35468        | 11        |
| May -        | 0,64275        | 12        | July - -     | 1,09032        | 12        | October -    | 6,6208         | 24        |
|              | <u>3,00733</u> | <u>28</u> | August -     | <u>0,63055</u> | <u>14</u> |              | <u>6,97548</u> | <u>35</u> |
|              |                |           |              | <u>4,40113</u> | <u>40</u> |              |                |           |

By

By the first table the Spring must be deemed nearly *dry* or *variable dry*.

By the second table the Summer was also *variable dry*, but nearer to variable than to dry. By the third table the Autumn should be deemed *wet*, but in fact it was *Bipartite*, one month, viz. September, being exceeding dry, and the other, October, exceeding wet.

*Comparison of the Seasons with the Rules of Probability.*

THE *Spring* being *dry* the probability of a dry Summer was greatest, being  $\frac{2}{4} \frac{2}{7}$  in the second table.

THE *Summer* being *variable dry* the probability of a variable Autumn was greatest by the ninth table.

THE *Spring* being *dry* and the *Summer variable dry*, the probability of a wet and variable Autumn were equal by the tenth table. This year then the prognostics answered remarkably well.

*Of*

*Of the Winter preceding the Spring of 1795.*

|          |     | Rain.           | Days.     | Mean.                              |
|----------|-----|-----------------|-----------|------------------------------------|
|          |     |                 |           | Bar.                               |
| 1794.    |     |                 |           |                                    |
| November | - - | 7,67671         | 22        | 29,79                              |
| December | - - | 3,54687         | 20        | 30,03                              |
|          |     | <u>11,22358</u> | <u>42</u> | <u>Mean</u> - <u>29,91</u>         |
| 1795.    |     |                 |           |                                    |
| January  | - - | 2,40399         | 15        | 30,19                              |
| February | - - | 2,28576         | 19        | 29,76                              |
| March    | - - | 2,20694         | 17        | 29,91                              |
|          |     | <u>6,89669</u>  | <u>51</u> | <u>Mean</u> - <u>29,95</u>         |
| Total    | -   | <u>18,12027</u> | <u>93</u> | <u>Mean of both</u> - <u>29,93</u> |

THE quantity of rain that fell this Winter was nearly double that which fell in the Winters of 1793 or 1794. The Summers and Autumn of those years were wet, but in this dry, or nearly so. If this holds frequently it will form a valuable prognostic.